

VASIL'YEV, V. (Sokal', L'vovskaya oblast').

In new mines, Pozh. delo 4 no.6:12 Je '58. (MIRA 11:5)  
(Mining engineering--Safety measures)

VASIL'YEV, V., kapitan; LESKOV, M.

Twenty-four thousand miles on the training ship "Tovarishch."  
Mor. flot 18 no. 5:4-6 My '58. (MIRA 11:6)

1.Uchebnoye sudno "Tovarishch." 2.Glavnyy rukovoditel' praktiki  
(for Leskov).  
(Training ships)

VASIL'YEV, V.

Practice in simplifying accounting in state purchasing organizations.  
Bukhg. uchet 15 no.4:45-47 Ap '58. (MIRA 11:5)

1. Nachal'nik planovo-finansovogo otdela Checheno-Ingushskogo  
upravleniya khleboproduktov.  
(Accounting)

VASIL'YEV, V.

Miniature motors. Tekh.mol. 28 no.10:17 '60.  
(Motors) (Models and modelmaking) (MIRA 13:10)

L 15997-66

ACC NR: AP6005012

SOURCE CODE: UR/0208/66/006/001/0130/0143

AUTHOR: Vasil'yev, V. A. (Leningrad); Lozinskiy, N. N. (Leningrad)

ORG: none

34  
B

TITLE: Automatic check on recording of algorithms in ALGOL-60

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 6, no. 1, 1966, 130-143

TOPIC TAGS: computer programming, electronic checkout, algorithmic language/ALGOL

ABSTRACT: A semantic method for checking the accuracy of ALGOL algebraic problems is proposed. The content and organization of the semantic program are discussed as well as various additional problems associated with freeing the information from errors. The proposed method verifies the program with respect to the following points: 1. the rules established for description of the programs should be observed; 2. the quantities appearing in the program should be used in positions corresponding to their "nature"; 4. the actual parameters of the procedure operator and

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UDC: 681 : 142.2

L 15997-66

ACC NR: AP6005012

the formal parameters for description of this procedure should correspond to one another in the sense that the procedure field, modified according to the rules for setting up the procedure operator, should be the ALGOL operator which is true in the syntactic and semantic sense, i. e. these four points should be fulfilled in the operator. A general program is described for carrying out this checking method. This verification system is self-contained with respect to the translator and may be used on machines with less complex coding. Some of the general limitations of the system are pointed out. Orig. art. has: 6 formulas.

SUB CODE: 03,12/ SUBM DATE: 02Mar65/ ORIG REF: 004/ OTH REF: 000

Card 2/2 90

VASIL'YEV, V.A.

Sidings. Sakh.prom. 28 no.5:7 '54.

(MIRA 7:9)

1. Sakharnyy zavod im. Kalinina.  
(Railroads--Track)

VASIL'YEV V. A.

SHISHKIN, Kirill Aleksandrovich, prof.; GUREVICH, Abram Matanovich, kand. tekhn.nauk; STEPANOV, Aleksandr Dmitriyevich, kand.tekhn.nauk; VASIL'YEV, Vladimir Andreyevich, inzh.; SAZONOV, A.G., inzh., red.; KAMENETSKIY, B.G., kand.tekhn.nauk, red.; KHITROV, P.A., tekhn.red.

[TE 3 diesel locomotive] Teplovoz TE 3. Moskva, Gos. transp.zhel. dor. izd-vo, 1957. 376 p. (MIRA 11:4)  
(Diesel locomotives)

VASIL'YEV, V.A., inzhener.; KUZNETSOV, B.G., inzhener.

~~Electric equipment for the TE-3 diesel locomotive. Vest. elektroprom~~  
~~28 no.1:21-29 Ja '57.~~  
(MIRA 10:4)

1. Khar'kovskiy elektroturbinnyy zavod, Ministerstva elektrotekhnicheskoy promyshlennosti.  
(Diesel locomotives)

SHISHKIN, Kirill Aleksandrovich, prof. [deceased]; GUREVICH, Abram Natano-vich, kand. tekhn. nauk; STEPANOV, Aleksandr Dmitriyevich, doktor tekhn. nauk; VASIL'IEV, Vladimir Andreyevich, inzh.; SURZHIN, Sergey Nikolayevich, inzh.; KAMENETSKIY, B.G., kand. tekhn. nauk, rotsenzent; MOISEYEV, G.A., inzh., rotsenzent; TURIK, N.A., inzh., rotsenzent; SAZONOV, A.G., inzh., red.; KHUTORIANSKIY, N.M., kand. tekhn. nauk, red.; KHITROV, P.A., tekhn. red.

[TE3 diesel locomotive] Teplovoz TE3. Izd.2., perer. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniya, 1961. 371 p.

(MIRA 14:6)

(Diesel locomotives)

ALEKSEYEV, A.Ye.; VASIL'YEV, V.A.; DEMBO, A.R.; KOZHEVNIKOV, V.A.; KOCHNEV, A.V.

Premises and features of the standardization of the traction motors of  
diesel locomotives and single-phase d.c. locomotives. Sbor.rab.po vop.  
elektromekh.no.8:327-336 '63.

(MIRA 16:5)

(Electric locomotives)

(Diesel locomotives)

VASIL'YEV, V.A.

Work of the "Elektrotiazhmas" factory in the development of electric traction motors for diesel locomotives. Sbor.rab.po vop.elektromekh. no.81336-342 '63.

(Diesel locomotives)

(Electric railway motors)

(MIRA 16:5)

VASIL'YEV, V.A.; RUSHANOV, I.I.; ZOLOTAREVSKAYA, L.A.

Immediate and late results of subtotal pericardectomy in chronic constrictive pericarditis. Vest. khir. 92 no.3:19-26 Mr '64.  
(MIRA 17:12)

1. Iz otdeleniya priobretennykh porokov (zav. prof. S.A.Kolesnikov), rentgenologicheskogo otdeleniya (zav. - doktor med. nauk M.A.Ivanitskaya) i laboratorii funktsional'noy diagnostiki (zav. - kand.med.nauk G.G.Gel'steyn) Instituta serdechno-sosudistoy khirurgii (dir. - prof. S.A.Kolesnikov, nauchnyy rukovoditel' - akademik A.N.Bakulev) AMN SSSR. Adres avtorov: Moskva, Leninskiy prospekt, 8, Institut serdechno-sosudistoy khirurgii.

VASIL'YEV, V.A.

Results of the treatment of pulmonary abscess by intrapulmonary administration of penicillin. Klin. med., Moskva 31 no.4:29-32 Apr 1953.  
(CIML 24:4)

1. Candidate Medical Sciences. 2. Leningrad.

VASIL'YEV, V.A., kandidat meditsinskikh nauk (Leningrad).

Results of the treatment of pulmonary abscess by intrapulmonary administration of penicillin. Klin.med. 34 no.4:29-32 Ap '53. (MLR 6:7)  
(Penicillin) (Lungs--Abscess)

VASIL' YEV, V.A.; KUNIN, M.A.; VOLODIN, Ye.I.

Detecting small quantities of gas in the pleural cavity by means of laterography. Vest.rent. i rad. 31 no.5:33-34 S-0 '56. (MLPA 10:1)

1. Iz kafedry tuberkuleza Voyenno-meditsinskoy akademii imeni S.M. Kirova (nach. kafedry - prof. V.M.Novodvorskii)  
(THORAX, radiography  
determ. of gas in pleural cavity, laterography)  
(PLEURA, radiography  
same)

VASIL'YEV, V.A.

Physician's procedure in treating pulmonary tuberculosis by artificial pneumotherax and antibacterial preparations [with summary in French]  
Probl.tub. 36 no.5:41-45 '58 (MIRA 11:8)

1. Iz kafedry tuberkuleza (nach. - prof. V.M. Novodvorskij) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.  
(PNEUMOTHORAX, artificial,  
with drugs (Rus))  
(TUBERCULOSIS, PULMONARY, ther.  
drugs, alone & with pneumotherax (Rus))

VASIL'YEV, V.A., dots. (Leningrad)

Detection of reflex contractility of the lung. Klin.med. 36  
no.12:36-42 D '58. (MIRA 12:6)

1. Iz kafedry tuberkuleza (nach. - prof.V.M.Novodvorskij)  
Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.  
(LUNGS, physiol.  
reflex contractility (Rus))

VASIL'YEV, V.A., dotsent, podpolkovnik meditsinskoy sluzhby

Principles of expert examination in latent forms of pulmonary tuberculosis in military medicine. Voen.med.zhur. no.5:44-48 My '59. (MIRA 12:8)

(TUBERCULOSIS, PULMONARY, diag.

latent forms in armed forces personnel (Rus))

(ARMED FORCES PERSONNEL, dis.

pulm. tuberc., detection of latent forms (Rus))

KOVEL'MAN, I.A., kand.tekhn.nauk; VASIL'YEV, V.A., red.; YAKHONTOVA, T.D.,  
tekhn.red.

[Concrete and reinforced concrete products and details; precasting  
practices and use] Betonnye i zhelezobetonnye izdelia i detali;  
opyt zavodskogo proizvodstva i primenenia. Moskva, Gosstroizdat,  
1963. 65 p. (Akademija stroitel'stva i arkhitektury SSSR.  
TSentral'nyi institut nauchnoi informatsii po stroitel'stvu i  
arkhitekture. Opyt zarubezhnogo stroitel'stva, no.13). (MIRA 16:12)

VASIL'YEV, Vyacheslav Aleksandrovich; DEMBO, A.G., red.; CHUNAYEVA,  
Z.V., tekhn. red.

[Clinical and physiological foundations of the artificial  
pneumothorax] Kliniko-fiziologicheskie osnovy iskusstvennogo  
pnevmotoraksa. Leningrad, Medgiz, 1961. 177 p.

(MIRA 15:3)

(PNEUMOTHORAX)

VASIL'YEV, V.A., dotsent (Leningrad)

Diagnostic signs of eosinophilic infiltrations of the lung.  
Klin.med. no.12:127-129 '61. (MIRA 15:9)

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.  
Kirova.

(LUNGS--DISEASES) (EOSINOPHILES)

VASIL'YEV, V.A.; KISIS, S.Ya.; STRAKHOV, S.N.

Some problems of hemodynamic disorders in patients with  
chronic constrictive pericarditis. Zdravookhranenie 5 no.5:  
39-44 S-0'62. (MIRA 16:7)

1. Iz rentgenologicheskogo otdeleniya (zav. - dotsent M.A.  
Ivanitskaya) i khirurgicheskogo otdeleniya priobretennykh po-  
rokov serdtsa (zav. - prof. S.A.Kolesnikov) Instituta ser-  
dechno-sosudistoy khirurgii AMN SSSR (direktor - prof. S.A.  
Kolesnikov). Nauchnyy rukovoditel' akademik A.N.Bakulev.  
(PERICARDITIS) (BLOOD--CIRCULATIONS, DISORDERS OF)

VASIL'YEV, V.A.; PROKOPOVICH, A.Ye., redaktor; IVANOVA, N.A., redaktor  
izdatel'stva; EL'SKIND, V.D., tekhnicheskiy redaktor.

[Modernization of gear-cutting machines; instructions] Moderni-  
zatsiya zubodolbeznykh stankov; rukovodящие materialy. Pod  
red. A. B. Prokopovicha. Moskva, Gos. nauchno-tekhn. izd-vo mashino-  
stroit. lit-ry, 1957. 42 p. (MIRA 10:11)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut  
metallorezhushchikh stankov.  
(Gear-cutting machines)

VASIL'YEV, V.A., inzh.

Two-saw corsscutting machine with automatic feed. Der. prom. 6 no.10:  
25 O '57. (MIR 10:11)

1. Zavod "Voronezhsel'mash."  
(Woodworking machinery)

MAYOROVA, E.A.; SHILKIN, O.D.; VASIL'YEV, V.A.; SHILOVA, Ye.A.

Plastic gears for jig-boring machines. Stan. i instr. 33 no. 9:10-14  
S '62. (MIRA 15:9)

(Drilling and boring machinery)

VASIL'YEV, V.A.

Reducing the noise of machine tools. Mashinostroitel' no.8:  
35-37 Ag '63. (MIRA 16:10)

VASILIYEV, V.A., assistant

Devices for determining the rate of pressing in die-casting machines. Izv. vys. ucheb. zav., mashinostr. no.6:150-152 '65.  
(MIRA 18:8)

VASIL'YEV, V.A., agronom

All-Union Seminar of Scientists and Practical Agriculturists  
on Organic-Mineral Fertilizers. Zemledelie 24 no.5:75-82  
Mys '62. (MIRA 15:7)  
(Fertilizers and manures--Congresses)

VASIL'YEV, V.A., agronom

It is time to prepare composts. *Zemledelie* 24 no.6:42-47 Je  
'62. (MIRA 15:11)

1. Otdel massovykh proizvodstvennykh optyov Upravleniya nauki,  
propagandy i vnedreniya perevodovogo optya Ministerstva sel'skogo  
khozyaystva SSSR.

(Compost)

PANTELEYEV, I.N.; VASIL'YEV, V.A.

About the book "Fertilizer factories" by I.S. Egorov.  
Zemledelie 25 no.6:91-93 Je '63. (MIRA 16:7)

(Fertilizers and manures)  
(Egorov, I.S.)

VASIL'YEV, V.A.

Economic evaluation of the effectiveness of manure-soil composts.  
Zemledelie 26 no. 4:56-62 Ap '64. (MIRA 17:5)

1. Starshiy ekonomist-agronom otdela massovykh proizvodstvennykh  
opytov Upravleniya nauki Ministerstva sel'skogo khozyaystva SSSR.

VASIL' YEV. V-A.

### SPECIMENS AND PREPARATIONS

The problem of the genesis of Central-Asiatic petroleum deposits. V. B. Porfir'ev and V. A. Vasilev. *Neftegaz. Khronika* 25, No. 10, 18-22 (1933). The genesis of the petroleum deposits in the Caspian Valley, Cherkassui, Pitnyak and Gaudak districts is discussed. A. A. Boehlting.

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858920003-5"

VASIL'YEV, V.A. (Tashkent).

Approximate solution of a problem on percolation from a small lake  
formed by an earth-fill dam. Izv. AN SSSR Otd.tekh. nauk no.10:  
171-172 0'54. (MIRA 8:3)  
(Soil percolation) (Dams)

VASIL'YEV, V. A.

"Some Problems in the Theory of Filtration When Canals or  
Drains are Present." Cand Phys-Math Sci, Inst of Mathematics  
And Mechanics imeni V. I. Romanovskiy, Acad Sci Uzbek SSR, Tash-  
kent, 1955. (KL, No 12, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical  
Dissertations Defended at USSR Higher Educational Institutions (15)

USSR/Physics - Filtration

FD-1441

Card 1/1 : Pub. 85 - 10/15

Author : Vasil'yev, V. A. (Tashkent)

Title : The form of the mound of ground waters between two drains on a medium impervious to water in the presence of infiltration

Periodical : Prikl. mat. i mekh. 19, No 1, 106-108, Jan-Feb 1955

Abstract : The author considers the two-dimensional problem of the form of the hump-like mound of ground waters which flow off into drains lying on a water-impervious medium in the case of infiltration, as studied in exact hydro-dynamical representations. He obtains the solutions by means of analytical theory of linear differential equations. One reference: P. Ya. Polubarnova-Kochina, Teoriya dvizheniya gruntovykh vod [Theory of the motion of ground waters], State Technical Press, Moscow 1952.

Institution :

Submitted : November 4, 1954

124-58-9-10112

Seepage From a Canal Containing Only a Shallow Layer of Water

obtained as early as 1947 by S. N. Numerov (Izv. Vses. n. -i. in-ta gidrotekhn. 1947, Vol 34) by means of the same method. The solution is expressed in terms of elliptical functions. The introduction of the abovementioned assumptions permits a change from the elliptical functions to elementary functions; hence the solution shown in the present paper. The following typographical errors are noted: 1) in Eqs. (8) and (9) a minus sign should follow the second equal sign; 2) the term  $\text{arch } \xi$  in the last formulas on pp 26 and 27 should be replaced by the correct term  $\text{arch}(-\xi)$ .

S. N. Numerov

1. Inland waterways 2. Water--Penetration 3. Mathematics--Applications  
4. Hydrodynamics--USSR 5. Functions--Theory

Card 2/2

AUTHOR: Vasil'yev, V. A. (Tashkent)

24-11-24/31

TITLE: On the shape of the mound of ground water during partial (rainwater) infiltration to its surface. (O forme bugra gruntovykh vod pri chastichnoy infil'tratsii na yego poverkhnost')

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1957, No.11, pp. 177-181 (USSR)

ABSTRACT: It is assumed that rain falls on permeable soil and that at a depth  $L$  from the soil surface there is a water bearing layer, the water level in which equals  $H$ , Fig.1. The form of the mound in the soil water caused by the rainfall is to be determined applying certain simplifying assumptions. The obtained solution can be applied, for instance, for the following case: under the influence of the pressure in the lower, strongly permeable layer, the water rises upwards and evaporates in a certain section of the width  $2\ell$ , the increased evaporation being due, for instance, to a local recess in the soil. There are 3 figures and 4 references, all of which are Slavic.

SUBMITTED: October 8, 1956.

AVAILABLE: Library of Congress.  
Card 1/1

VASIL'YEV, V.A.; RESHETKINA, N.M.

Design of vertical drainage wells. Dokl. AN Uz. SSR no.2:45-49  
'58. (MIRA 11:5)

1. Institut vodnykh problem i godrotekhniki AN UzSSR. Predstavлено  
членом-корр. AN UzSSR R.A. Alimovym.  
(Uzbekistan--Wells)

SOV/24-58-10-8/34

AUTHORS: Vasil'yev, V. A. and Shul'gin, D. F. (Tashkent)

TITLE: Flow of Percolation Water into Symmetrically Placed Water Intakes (Pritok infil'tratsionnoy vody v simmetrichno raspolozhennyye vodopriyemniki)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, 1958, Nr 10, pp 46-50 (USSR)

ABSTRACT: Precipitation falls on a strip of width  $2l$  (Fig.1) symmetrically placed between two buried water intakes, separated by a distance  $2L$ . The paper discusses the shape of the underground water surface resulting from these conditions. To solve the problem, the region is transformed conformally, and by applying complex variable methods, the theory of linear differential equations and the boundary conditions, the required shape is determined. There are 4 figures and 3 Soviet references.

SUBMITTED: February 13, 1958.

Card 1/1

VASIL'YEV, V.A. (Tashkent); SHUL'GIN, D.F. (Tashkent)

Performance of screen pipes of drilled wells. Izv. AN SSSR, Otd.  
tekhnicheskikh nauk, Mekhanika i mashinostroeniya, no. 1, 1961.

(MIRA 14:2)  
(Oil well drilling) (Filters and filtration)

VASIL'YEV, V.A., inzh.

Problems of designing electric traction motors for diesel  
locomotives. Elektrotehnika 34 no.9t28-31 S '63.(MIRA 16:11)

VASIL'YEV, V. A.

"The syntactical role of intonation."

report submitted for 5th Intl Cong of Phonetic Sciences, Muenster, W. Germany,  
16-23 Aug 64.

improved the mixing, but the mixing range is more limited, and pulsation stirring was considered preferable. An absence of air pockets in the pipe lines is preferable. An absence of air pockets in the pipe lines is

KARPACHEVA, S.M., doktor khim. nauk; ROZEN, A.M., kand. tekhn. nauk;  
VASIL'YEV, V.A., inzh.; DYADINA, K.A., inzh.

Investigating packed pulse extraction columns. Khim. mash. 3  
no.3:6-11 My-Je '59. (MIRA 12:12)  
(Packed towers)

**KARPACHEVA, S.M., doktor khim.nauk; ROZEN, A.M., kand.tekhn.nauk; VASIL'YEV,  
V.A., inzh.**

Investigating the functioning of a pulse packing column. Khim.mash.  
no.2:13-16 Mr-Ap '60. (MIRA 13:6)  
(Packed towers)

ROZEN, A.M.; VASIL'YEV, V.A.; GORSHKOVA, G.P.; BEZZUBOVA, A.I.

Mechanism of the process in packed columns with pulsation. Dokl.  
(MIRA 14:1)  
AN SSSR 136 no.2:401-404 '61.

1. Predstavлено академиком S.I. Vol'fkovichem.  
(Packed towers)

ROZEN, A.M.; VASIL'YEV, V.A.; BEZZUBOVA, A.I. GORSHKOVA, G.P.

Certain regularities of hydraulics and mass transfer in packed pulse  
columns. Ekstr.; teor., prim., app. no. 2:320-338 '62. (MIRA 15:9)

(Extraction (Chemistry)) (Packed towers)

ACC-NR: AR6022471

SOURCE CODE: UR/0169/66/000/003/D023/D023

AUTHOR: Bespyatov, B. I.; Vasil'yev, V. A.; Cherkasova, I. V.; Shalimov, B. P.;  
Manukov, V. S.TITLE: The seismic characteristic of the border zone of the Caspian Basin and possi-  
bilities of improving the effectiveness of the MOV method

SOURCE: Ref. zh. Geofiz, Abs. 3D143

REF SOURCE: Tr. Nizhne-Volzhsk. n.-i. in-t geol. i geofiz., vyp. 2, 1964, 67-74

TOPIC TAGS: seismic prospecting, geologic exploration

TRANSLATION: Difficulties in obtaining high caliber seismic data are reviewed. These include: regular waves of interference, complicated relief of the first sharp boundary, thin-beddedness of the principal strata, echoes, etc. Methods of overcoming these difficulties are considered. The most effective means of eliminating the effects of interfering waves are: proper positioning of shots, shorter shot intervals (to 250 m if the geology is difficult), and longer shot intervals (up to 1000 m, if echoes are expected). The RNP method is recommended for the regions where the first reflecting surface has a complicated relief. Salt domes should be located gravimetrically. The usual modification of the MOV method should be avoided. Difficulties due to thin strata-  
tification and effects of adjoining media are best overcome by arranging the geophones

UDC: 550.834.5

Card 1/2

ACC NR: AR6022471

into several groups separated by wide transmission bands in the range of medium and high frequencies. More massive groupings and multifrequency profiling are advisable for regions where echoes are expected. M. Mikhno.

SUB CODE: 08

Card 2/2

5

VASIL'YEV, V.A., assistant

Effect of diffusion processes on the formation of intermediate  
compounds during the interaction of metal and mold material.  
Izv. vys. ucheb. zav.; mashinostr. no.4:145-150 '65.  
(MIRA 18:5)

SHISHKIN, Kirill Aleksandrovich, prof.; GUREVICH, Abram  
Natanovich, kand. tekhn. nauk; STEPANOV, Aleksandr  
Dmitriyevich, doktor tekhn. nauk; VASIL'YEV,  
Vladimir Andreyevich, kand. tekhn. nauk; SURZHIN,  
Sergey Nikolayevich, inzh.; KISELEVA, N.P., red.

["TE3" diesel locomotive] Teplovoz TE3. Izd.3., perer.  
[By] K.A.Shishkin i dr. Moskva, Transport, 1965. 411 p.  
(MIRA 18:7)

STAKHANOVA, M.S. (Moskva); KARAPET'YANTS, M.Kh. (Moskva); VASIL'YEV, V.A. (Moskva); YEPIKHIN, Yu.A. (Moskva)

Comparative study of the heat capacities and densities of aqueous electrolyte solutions. Zhur. fiz. khim. 38 no.10:2420-2429 0 '64. (MIRA 18:2)

1. Moskovskiy khimiko-tehnologicheskiy institut imeni D.I. Mendeleyeva.

FRENKEL, P.M.; AYZENBERG, Ya.M.; BAZAROV, A.R.; PISHCHIK, M.A.;  
CHETYRKINA, V.G.; SHISHKIN, R.G.; KOSENKO, I.S.; RUBINCHIK,  
M.I.; AVRAMENKO, V.N.; ALEKSANDROV, M.M.; VASIL'YEV, V.A.,  
red.

[Use of prestressed reinforced concrete in foreign  
countries] Primenenie predvaritel'no napriazhennogo zhe-  
lezobetona za rubezhom. Moskva, Stroizdat, 1964. 85 p.  
(MIRA 17:6)

VASIL'YEV, V.A., inzh.; LEMBERG, A.Ya., inzh.

Problems of the design of the traction generators of diesel  
locomotives. Elektrotehnika 34 no.11:35-39 N '63.  
(MIRA 17:2)

VASIL'YEV, V.A., inzh.

In the technical committee No.9 of the International  
Electrical Engineering Commission. Elektrotehnika 34 no.11:  
(MIRA 17:2)  
64-65 N '63.

VASIL'YEV, V.A.; SHUL'GIN, D.F.

Theory of the performance of the filter of a water-intake  
well. Nauch. trudy TashGU no.209. Mat. nauki no.23:3-15  
(MIRA 16:8)  
'62.

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APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858920003-5"

KAPUSTINSKIY, A.F.; STAKHANOVA, M.S.; VASIL'YEV, V.A.

Densities and heat capacities of mixed aqueous solutions of lithium  
and potassium chlorides at 25° C. Izv. AN SSSR. Otd. khim. nauk no. 12:  
2082-2089 D '60. (MIRA 13:12)

1. Khimiko-tehnologicheskiy institut im. D. I. Mendeleyeva.  
(Lithium chloride) (Potassium chloride)  
(Heat capacity)

V.P.S. - 25/35

89-2-25/35

## AUTHORS:

Vasil'yev, V. A., Shishkina, V. A.,

## TITLE:

Back-Scattering of Gamma - Rays from Aluminum  
(Obratnoye rasseyaniye  $\gamma$ -izlucheniya alyuminiyem)

## PERIODICAL:

Atomnaya Energiya, 1958, vol 4, Nr 2, pp. 205-206 (USSR)

## ABSTRACT:

For various cases it is necessary to know the number of back-scattered  $\gamma$ -quanta for a wide beam when the distance between the  $\gamma$ -source and the "reflector" varies within the range of several meters. Cs<sup>137</sup> (4,7 C; E<sub>γ</sub> = 661 KeV) and Co<sup>60</sup> (2,57 C; E<sub>γ</sub> = 1,17 and 1,32 MeV) are used as sources, aluminum-plates of an area of 1,5 m<sup>2</sup> and various thickness (2-11 mm) as "reflector". A large NaJ (Tl)-crystal was used as  $\gamma$ -counter. The measurement was conducted in such a way that the back-scattering was in one instance measured with and then without an aluminum plate. The measured ratio of back-scattered  $\gamma$ -rays of Cs<sup>137</sup> and Co<sup>60</sup> amounts to 8,3 for 3 and 5 m. The measured dependence of the back-scattered  $\gamma$ -current on the thickness of the aluminum plate, the source-reflector distance being 3,5 m, shows that between a thickness of 2 to 11 mm it runs almost linearly. There are 3 figures, and 2 references, 1 of which is Slavic.

## SUBMITTED:

September 9, 1957

## AVAILABLE:

Library of Congress

## Card 1/1

1. Gamma rays-Scattering-Measurement

CHEDIYA, O.K.; VASIL'YEV, V.A.

First Tajik Conference on the Study of the Quaternary Period.  
Izv. Otd. est. nauk AN Tadzh. SSR no. 3:145-146 '59. (MIRA 15:5)  
(Tajikistan—Geological research—Congresses)

CHEDIYA, O.K.; VASIL'YEV, V.A.

Character and age of the ancient glaciation of the northern slope  
of the Peter the First Range. Trudy Tadzh.gos.un. 28 no.1:101-  
117 '60. (MIRA 15:1)  
(Peter the First Range--Glacial epoch)

VASIL'YEV, V.A.

Genthelvite. Zap.Vses.min.ob-va 90 no.5:571-572 '61.  
(MIRA 14:10)  
1. Litovskiy gosudarstvennyy universitet, kafedra mineralogii,  
Vil'nyus.  
(Genthelvite)

VASIL'YEV, V.A., insh.

New paints to be used in repairing facades. Gor.khoz.Mosk.  
34 no.5:12-14 My '60. (MIRA 13:7)  
(Facades) (Paint mixing)

VASILL'YEV, V.B.

Burns of the hand and their treatment. Ortop., travm. i protez.  
25 no.11:24-28 N '64. (MIRA 18:11)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. -  
chlen-korrespondent AMN SSSR prof. M.V. Volkov). Adres avtora:  
Moskva A-299, Novaya Ipatovka d.8, TSentral'nyy institut trav-  
matologii i ortopedii. Submitted March 1, 1962.

VASIL'YEV, V.B.

Burns of the hand and their treatment. Ortop., travm. i protez.  
25 no.11:24-28 N '64. (MIRA 18:11)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. -  
chlen-korrespondent AMN SSSR prof. M.V. Volkov). Adres avtora:  
Moskva A-299, Novaya Ipatovka d.8, TSentral'nyy institut trav-  
matologii i ortopedii. Submitted March 1, 1962.

VASIL'YEV, V.B.

A metronome operated by falling drops. Fiz. v shkole 15 no.  
3:60-61 My-Je '55. (MIRA 8:6)

1. Pedagogicheskiy institut (G. Shcherbakov)  
(Metronome)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858920003-5

VASILYEV, V. B.  
Gertzensteyn, M. E. and VASILYEV, V. B.

"Multiple Reflections in a Longitudinally Inhomogeneous Line."

paper presented at the 4th All-Union Conf. on Acoustics, Moscow, 26 May - 1 June 1959.

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858920003-5"

16(1),16(2)

AUTHORS: Gertsenshteyn, M. Ye., and Vasil'yev, V. B. 05793  
SOV/52-4-4-4/13TITLE: Waveguide With the Random Inhomogeneities and Brownian Motion  
on the Lobachevskiy PlanePERIODICAL: Teoriya veroyatnostey i yeye primeneniya, 1959,  
Vol 4, Nr 4, pp 424-432 (USSR)ABSTRACT: The authors consider a waveguide with random inhomogeneities. Let  $r_i$  be the reflection coefficient (ratio of the amplitudes of the reflected and original wave) of a single inhomogeneity. Let all  $r_i$  be independent random functions with known statistical characteristics. The authors ask for the reflection coefficient of the whole waveguide. It is shown that the problem can be reduced to the Brownian motion in the Lobachevskiy plane. At first two inhomogeneities are considered and it is stated that the resulting reflection coefficient is a broken linear function mapping the unit circle onto itself. Therewith the relation with the Lobachevskiy plane is given. For several inhomogeneities the image point moves in the Lobachevskiy plane, while the sum of the corresponding non-euclidean distances yields the total effect of the inhomogeneities. If the considered random process is continuous, then it leads to the diffusion equation in the Lobachevskiy plane.SUBMITTED: December 25, 1958  
Card 1/1

SOV/109-4-4-7/24

AUTHORS: Gertsenshteyn, M.Ye. and Vasil'yev, V.B.

TITLE: The Diffusion Equation of a Statistically Non-homogeneous Waveguide (Diffuzionnoye uravneniye dlya statisticheski neodnorodnogo volnovoda)

PERIODICAL: Radiotekhnika i elektronika, 1959, Vol 4, Nr 4,  
pp 611 - 617 (USSR)ABSTRACT: It is assumed that the complex reflection coefficient of the system is  $r = x + iy$  and that its probability density distribution satisfies the diffusion equation:

$$D \left( \frac{\partial^2 W}{\partial x^2} + \frac{\partial^2 W}{\partial y^2} \right) = - \frac{\partial W}{\partial z} \quad (3)$$

where  $D$  is the statistical characteristic of the waveguide; this is equal to the average half sum of the reflection coefficients squared per unit length of the waveguide;  $z$  is the distance along the length of the waveguide. If a normalised variable  $t = \int D dz$  is introduced, the equation can be written as Eq (4). When the waveguide

Card1/4

SOV/109-4-4-7/24

## The Diffusion Equation of a Statistically Non-homogeneous Waveguide

is terminated with a matched load, the solution of Eq (4) is in the form of Eq (5). It is seen that for large  $t$ , Eq (5) has no physical meaning. A different differential equation for the density probability function is, therefore, necessary. The equation should be such as to make the solution independent of the terminating load; also when  $x^2 + y^2 \neq 0$ , the differential equation should coincide with Eq (4). These requirements are satisfied by:

$$\Delta W = \frac{\partial W}{\partial t} \quad (7)$$

where  $\Delta$  is the Laplace operator on the Lobachevskiy surface. The operator is defined by Eq (8). By introducing a polar system of co-ordinates  $\eta, \varphi$ , as defined by Eqs (9), the Laplace operator is represented by Eq (10). If  $\eta = i\theta$  and  $u = ch\eta$ , Eq (10) can be expressed as Eq (11). This can be solved by introducing the Laplace transformations and leads to the Legendre equation which

Card2/4

SOV/109-4-4-7/24

**The Diffusion Equation of a Statistically Non-homogeneous Waveguide**

is in the form of Eq (13). In its final form, Eq (13) can be written as Eq (16). On the basis of the above, it is found that the average value for  $u$  is expressed by Eq (17). The average value of the reflection coefficient is approximately expressed by Eq (19). The value of the average reflection coefficient  $r$  as a function of  $t$  is plotted in Figure 2; Curve I corresponds to a linear approximation, while Curve II represents more accurate results. It is seen that Curve I gives values which are higher than those represented by Curve II. The physical meaning of this is that a part of the energy of the reflected wave travelling from the load towards the generator is reflected by the non-uniformities of the waveguide (towards the terminating load). The authors make acknowledgment to B.Ye. Kinber for discussing the work and for his valuable remarks.

Card 3/4

SOV/109-4-4-7/24

The Diffusion Equation of a Statistically Non-homogeneous Waveguide

There are 2 figures and 9 references, 1 of which is English and 8 Soviet. 1 of the Soviet references is translated from English.

SUBMITTED: November 26, 1957

Card 4/4

GERTSENSHTEYN, M. Ye.; VASIL'YEV, V.B.

In regards to S. I. Al'ber and V. I. Bespalov's letter "Diffusion  
equation for a statistically nonhomogenous wave guide. Radio-  
tekh. i elektron. 6 no.3:449-450 Mr '61. (MIRA 14:3)  
(Wave guides)  
(Al'ber, S. I.) (Bespalov, V. I.)

REF ID: A6510671

ASSOCIATION NR: A6510671

AUTHOR: Vasil'yev, I. S.

TITLE: A thermally stable waveguide filter. Class 21, No. 169003

SOURCE: Byulleten' izobreteniij i tovarnykh znakov, no. 7, 1965, 46

TOPIC TAGS: waveguide filter

ABSTRACT: This Author Certificate presents a thermally stable waveguide filter of

thermal compensator and turns a waveguide filter of the section. To make

ASSOCIATION: none

SUBMITTED: 19 Jun 64

ENCL: 00

SUB CODE: E

NO REF NOV: 000

OTHER: 000

Cart: 1,2

L 6367-66 EWT(1)/EWA(h)

ACC NR: AP5026756

SOURCE CODE: UR/0286/65/000/017/0029/0029

AUTHOR: Vasil'yev, V. B.

36

ORG: none

TITLE: An shf filter. Class 21, No. 174237

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 29

TOPIC TAGS: shf, electric filter

ABSTRACT: This Author's Certificate introduces an shf filter which consists of an reiterated network of irregularities in the channel. The overall dimensions are reduced while maintaining high electrical parameters by connecting sections of uniform transmission line in the channel to form alternating parallel and series reactances, e. g. inductive pins and series-connected inductive stubs.

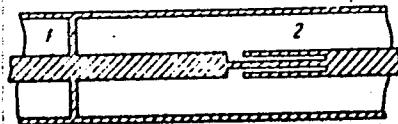


Fig. 1. 1--inductive pins; 2--series-connected inductive stubs.

UDC: 621.372.852.1

SUB CODE: EC/

SUBM DATE: 23May62/

ORIG REF: 000/

OTH REF: 000

NW  
Card 1/1

0902 0160

AMELIN, Boris Anatol'yevich; VASIL'YEV, Vladimir Dmitrievich;  
GLINSKIY, Yevgeniy Yevgen'yevich; TOKAREVA, T.N., ved.  
red.

[New methods for the nonmetallic reinforcement of bore-  
holes] Novye metody nemetallicheskogo krepleniya burovых  
skvazhin. Leningrad, Nedra, 1964. 109 p. (MIA 17:6)

VASIL'YEV, V.D.

Improving the quality and reliability of chemical equipment.  
Mashinostroitel' no.5:34-35 My '65. (MIRA 18:5)

VASIL'YEV, V.D., inzh.; BENING, V.S., inzh.

Use of the control generator of a hydraulic turbine as a source of  
operative current. Elek. sta. 36 no.1:49-51 Ja '65. (MIRA 18:3)

L 14486-65 EWT(m) DIAAP/ASD(a)-5/SSD/BSD/AFNL/AS(mp)-2/ASD(p)-3/ESD(gs)/ESD(t)  
S/0048/64/028/010/1653/1694  
ACCESSION NR: AP404639

B

AUTHOR: Alkhazov, D.G.; Vasil'yev, V.D.; Gusinsky, G.M.; Lemberg, I.Kh.; Nabichvri-  
vili, V.A.

TITLE: Angular distribution of gamma-radiation emitted in Coulomb excitation of  
odd-A nuclei /Report, Fourteenth Annual Conference on Nuclear Spectroscopy held in  
Tbilisi 14-22 Feb 1964/

SOURCE: AN SSSR. Izv. Seriya fizicheskaya, v.28, no.10, 1964, 1683-1694

TOPIC TAGS: nuclear physics, odd even nucleus, excited state, coulomb field, ion  
bombardment, gamma emission, nuclear spectroscopy

ABSTRACT: The angular distribution of the  $\gamma$ -rays resulting from Coulomb excitation  
of the following odd nuclei was investigated:  $Ne^{21}$ ,  $Sc^{45}$ ,  $Ti^{47}$ ,  $Fe^{57}$ ,  $Zn^{67}$ ,  $Ga^{69}$ ,  
 $Se^{77}$ ,  $Rb^{85}$ ,  $Rb^{87}$ ,  $Pd^{105}$ ,  $Sb^{123}$ ,  $Te^{123}$ ,  $I^{127}$ ,  $Cs^{133}$  and  $Sm^{147}$ . All the nuclei except  
 $Ne^{21}$  were excited by bombardment with 16.1 MeV nitrogen ions. The  $Ne^{21}$   $\gamma$ -rays were  
obtained by bombarding an aluminum target with 24 MeV  $Ne^{21}$  ions. The  $\gamma$ -radiation  
was recorded at 0, 30, 60 and 90° with four NaI scintillators, the relative effi-  
ciencies of which were determined by counting the  $\gamma$ -rays from standard radioactive

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L 14486-65  
ACCESSION NR: AP4048639

O

sources located at the target position. The coefficients of second and fourth degree Legendre polynomials in the expansion of the angular dependence of the intensity were obtained by the method of least squares, but the coefficients of the fourth degree polynomials were so small that they are disregarded in subsequent analyses. The portion of the anisotropy due to the Coulomb excitation process was calculated by a standard method, and the remaining anisotropy, after correction for instrumental effects, is ascribed to  $\gamma$ - $\gamma$  correlations in cascade processes. From this the residual anisotropy, the spin and parity of the residual state and the E2 and M1 transition branching ratio were determined (in some cases tentatively), and the results are tabulated. Reduced M1 transition probabilities were obtained for 11 of the nuclei, and these and the corresponding theoretical single-particle values are tabulated. The data concerning each of the nuclei are discussed in detail with numerous references to the literature. Orig.art.has: 5 formulas, 2 figures and 3 tables.

ASSOCIATION: none

ENCL: 00

SUBMITTED: 00

OTHER: 026

SUB CODE: NP

NR REF SCW: 011

2/2

ALKHAZOV, D.G.; ANDREYEV, D.S.; VASIL'YEV, V.D.; GANGRSKIY, Yu.P.;  
LEMBERG, I.Kh.; VDRALOV, Yu.I.

Studying the Coulomb excitation of the first levels of even-  
even nuclei by measuring coincidences of gamma quanta and  
inelastically scattered ions. Izv. AN SSSR. Ser. fiz. 27  
no.10:1285-1296 O '63. (MIRA 16:10)

VASIL'IEV, V.D.

Grooving by grinding wheels instead of boring grooves. Mashino-  
stroitel' no.1:35 Ja '57. (MLRA 10:4)  
(Grinding and polishing)

VASIL'YEV, V.D.

PA - 2120

AUTHOR:

BOGOMOLOV, V.N., VASIL'YEV, V.D.  
The Attempt made to use the Linear Detector with Hall's  
Effect for purposes of Measuring. (Opyt primeneniya lineynogo  
detektora na effekte kholla dlya izmeritel'nykh tseley, Russian).  
Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 2, pp 260 - 261 (U.S.S.R.)

Received: 3 / 1957

Reviewed: 3 / 1957

PERIODICAL:

ABSTRACT:

The ordinary tube- or semiconductor detectors result in no linear transformation in any amplitude interval and are not phase-sensitive. The detector with Hall's effect is free from these shortcomings. Its working principle is based on the fact that Halls effect is proportional to the product of the size of the magnetic field and amperage. Such a detector was also used in a system for the measuring of Hall's effect in alternating current, where an alternating voltage with a frequency of 20 c was to be measured. The complete scheme of this system is shown. A second illustration shows the block scheme of the detector. The following advantages of the detector with Hall's effect can be mentioned: Linearity of the recordings of the scheme in the case of any amplitudes of the signal to be measured, the possibility of determining the sign of Hall's effect on the sample, the elimination of influences in connection with the

Card 1/2

PA - 2120

The Attempt made to use the Linear Detector with Hall's Effect  
for purposes of Measuring.  
directioning at frequencies differing from signal frequency.  
(2 illustrations).

ASSOCIATION: Institute for Semiconductors of the Academy of Science of the  
U.S.S.R., Leningrad.

PRESENTED BY:

SUBMITTED: 2.6.1957.

AVAILABLE: Library of Congress.

Card 2/2

SOV/28-59-10-13/36

25(5)  
AUTHORS: Vasil'yev, V.D., and Mazukh, V.A.TITLE: Standardization and Control Over Its Introduction  
in Plants

PERIODICAL: Standartizatsiya, 1959, Nr 10, pp 36-38 (USSR)

ABSTRACT: The Bureau of Standardization and Normalization (BSN) of the Suma Machine Building Plant imeni Frunze consisted, until 1955, only of 3 men, and worked out only general standards (mounting, fitting, threading, etc). Having realized the importance of standardization, the Bureau has been adequately reorganized; it now numbers 15 men and works under the guidance of the Chief Engineer. It performs now the work of standardization along the following lines: general standards for mounting, threading, allowances, instruments; chemical appliances, compressors and centrifuges. After four years work, the Plant has over 100 collections of standards encompassing hundreds of units and thousands of components. All kinds of mountings, threadings, allowances, couplings, ma-

Card 1/3

SOV/28-59-10-13/36

## Standardization and Control Over Its Introduction in Plants

material assortments, welding, painting and galvanic chemical coatings are standardized. In the chemical industry, the basic units and components such as flanges, implement necks and bottoms, clamps, control openings, level indicators, etc are normalized. Many a column apparatus has 99% of its components standardized. In compressors, frames, connecting rods, bearings, lubrication systems, pumps, tanks, oil cooling devices and other units are normalized. The percentage of normalized units and components that were standardized in 1958 was: column apparatus - 77.3%; other chemical appliances - 54%; compressors - 64.3%; centrifuges - 77%. In order to coordinate the activity of individual co-workers and production departments, all drawings and specifications are subject to control by the Chief Engineer. Deviations from established standards can be permitted only be him. Large scale introduction of standardized units and components permits their centralized production. At ✓

Card 2/3

SOV/28-59-10-13/36

Standardization and Control Over Its Introduction in Plants  
the present time, building of a special department  
for preparing master gauges is near completion. ✓

Card 3/3

VASIL'YEV, V.D., inzh.

Precast reinforced concrete cantilever arch bridges. Transp. stroi.  
10 no. 10:17-21 0 '60. (MIRA 13:10)  
(Bridges, Cantilever)

18.9506 1043 1143 3309 1521

30803  
S/181/61/003/011/050/056  
B104/B138

AUTHORS: Kurov, G. A., Vasil'yev, V. D., and Kosaganova, M. G.

TITLE: Conditions for growing germanium crystals in thin films

PERIODICAL: Fizika tverdogo tela, v. 3, no. 11, 1961, 3541-3543 |

TEXT: Conditions were studied for the growth of large germanium crystals possible in thin films. The material was vacuum evaporated at about  $10^{-5}$  mm Hg; plates of quartz, graphite, and other substances were used as substrates. n-type germanium with a resistivity of 10 ohm·cm was evaporated. The rate of increase in the thickness of the films was about 100 Å/sec. The temperature of the substrate was varied between 500°C and the melting point of germanium and the thickness of the germanium films from 1 to 20  $\mu$ . Between 500 and 800°C polycrystalline films with crystals of about 0.1  $\mu$  and less were formed; at 900°C grain size was about 1  $\mu$ . There was no noticeable increase in grain size after 3 to 6 hrs annealing at 600-900°C. To find the recrystallization temperature of Ge a second quartz plate was layed on top of the one with the germanium film. This system was heated to 960°C. The germanium layer only melted at a few

Card 1/2

30803  
S/181/61/003/011/050/056  
B104/B138

Conditions for growing ...

places, where drops were formed. Microscope analysis showed that the drops formed plane single crystals with diameters of 100-200  $\mu$ . The fine grain structure of germanium was preserved at distances of 200  $\mu$  or more from the drop. This means that the recrystallization temperature of Ge is close to its melting point. Several hours annealing at 900-958°C produced single crystals of up to 2 mm in diameter and 1-20  $\mu$  thick. Like the starting material, these relatively large crystals also had n-type conductivity. There are 2 figures and 7 references: 3 Soviet and 4 non-Soviet. The two references to English-language publications read as follows: J. W. Thornhill, K. Lark-Horovitz. Phys. Rev., 82, 762, 1951; W. Shockley, G. L. Pearson. Phys. Rev., 74, 232, 1948.

ASSOCIATION: Institut kristallografii AN SSSR Moskva (Institute of Crystallography AS USSR, Moscow)

SUBMITTED: July 15, 1961

Card 2/2

VASIL'YEV, V.D., inzh.

New horizontal piston compressors. Mashinostroenie no.4:  
(MIRA 17:10)  
49-50 Jl-Ag '64.

SHVARTZ, D. G.; VASIL'YEV, V. D.; GUSINSKIY, G. M.; LEMBERG, I. K.; NABICHVRISHVILI, V.

"Angular Distributions of Gamma-rays Emitted in the Case of Coulomb-Excitation  
of Nuclei with Odd-A."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22  
Feb 64.

FTI (Physico Technical Inst)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858920003-5

, B. G.; VASIL'YEV, V. D.; GANGRSKIY, Yu. P.; LEMBERG, I. Kh.; UDRALOV, Yu. I.

"Double Coulomb-Excitation of 4 Levels in the Isotopes Ge, Se and Cd."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22  
Feb 64.

FTI (Physico Technical Inst)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858920003-5"

VASIL'YEV, V.D.

Standardization at the Sumy Machinery Plant. Standartizatsiya  
28 no.5:37-41 My '64. (MIRA 17:12)

1. Glavnnyy konstruktor Sunskogo mashinostroitel'nogo zavoda im.  
Frunze.

VASIL'YEV, V.D., inzh.; MIKHAYLOV, V.K., inzh.

Atomization driers for feed yeast. Mashinostroenie no.2:93  
(MIRA 18:6)  
Mr.-Ap '65.

MUKHAYLOV, V.K., inzh., VASIL'YEV, V.D., inzh.

The AG-900N automatic centrifuge. Mashinostroenie no. 2:27-28  
(MIRA 18:6)  
Mr-Ap '65.

VASIL'YEV, V.D., Inst.; DITVIRINOV, V.P., Inst.

Improvement of quality and the increase in reliability and durability  
of machines and equipment. Machineparts no.4:44-26 JZ-Ag 165.  
(NTRA 19:3)

ALKHAZOV, D.G.; VASIL'YEV, V.D.; GUSINSKIY, G.M.; LEMBERG, J.Kh.;  
NABICHVRISHVILI, V.A.

Angular distribution of  $\gamma$ -radiation emitted in the Coulomb  
excitation of nuclei with odd mass number. Izv. AN SSSR. Ser.  
fiz. 28 no.10:1683-1694 O '64. (MIRA 17:12)

A L 11826-66 EWT(1)/EWA(h)

ACC NR: AP6001569-

SOURCE CODE: UR/0120/65/000/006/0058/0064

AUTHOR: Vasil'yev, V. D.; Gal'perin, L. N.; Il'yasov, A. Z.; Lemberg, I. Kh.; Udralov, Yu. I.ORG: Physicotechnical Institute, AN SSSR, Leningrad (Fiziko-tehnicheskiy institut AN SSSR)TITLE: Gamma spectrometer with a p-i-n semiconductor detector 25SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1965, 58-64TOPIC TAGS: gamma spectrometer, semiconductor device, particle detector, multi-channel analyzer

ABSTRACT: The authors describe a gamma spectrometer with a p-i-n germanium detector cooled to the temperature of liquid nitrogen. The  $\gamma$ -spectrum is recorded by a 128-channel amplitude analyzer with an expander at the input. Line width of instrument noise is kept to 5 kev by a low-noise Chase preamplifier and carefully designed shielding. A block diagram of the unit is shown in Fig. 1. The detector is housed in the vacuum chamber of a Dewar flask and is kept at a temperature close to -190C by good thermal contact with the bottom of a vessel filled with liquid nitrogen. The signals to be studied are fed to the preamplifier and mixed at the input with reference pulses from the amplitude-controlled oscillator. The oscillator also generates code pulses in synchronization with the reference pulses which are fed through an hf cable to the input of the amplitude analyzer.

UDC: 621.382:539.16.07

Card 1/3

62  
59  
B